Welcome to iTronic Audio

This iTronic kit is designed to allow you to seamlessly integrate popular consumer-electronic devices into your vehicle such as iPod, auxillary input devices and more. In most cases full functionality of your device is available via the vehicle's radio/navigation display and steering wheel button controls. Let us help you learn about your new iTronic unit.

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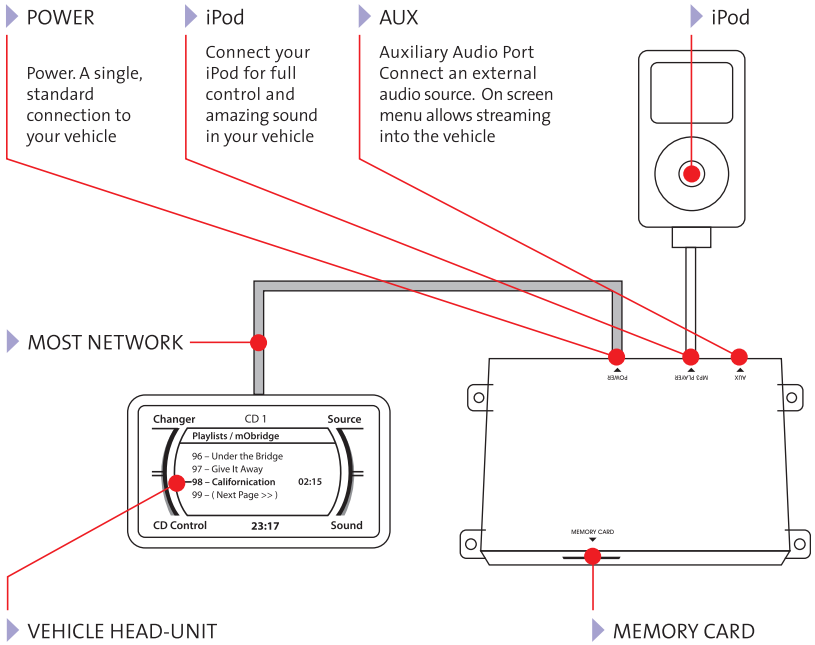
2008 ECP, LLC

The iTronic unit connects your iPod to your Vehicle head-unit via the optic-fiber MOST® Network.

Made for iPod

Features of Your iTronic Unit

The iTronic unit connets your iPod to your Vehicle head-unit via the optic-fiber MOST® Network.



Supported iPods

The “Made for iPod” logo indicates that this product has been designed specifically to work with iPod. The manufacturer certifies that this accessory has been made in accordance with the high standards of quality and performance that you expect from iPod and Apple.

- **iPod mini**
  4GB 6GB
- **iPod**
  4th generation
  20GB
- **iPod**
  4th generation
  40GB
- **iPod**
  4th generation (color display)
  20GB 30GB
- **iPod**
  4th generation (co or display)
  40GB 60GB
- **iPod nano**
  1st generation
  1GB 2GB 4GB
- **iPod**
  5th generation (video)
  30GB
- **iPod**
  5th generation (video)
  60GB 80GB
- **iPod nano**
  2nd generation (aluminum)
  2GB 4GB 8GB
- **iPod classic** &120GB
  80GB 160GB
- **iPod nano**
  3rd generation (video)
  4GB 8GB & 4th generation
- **iPod touch** & iPhones (all models)
  8GB 16GB

Before You Start

This interface is designed for use with iPod 4th and 5th generation (including video models), iPod photo, iPod mini, and iPod nano 1st and 2nd generation units. This unit allows audio to be routed through the vehical head unit, and will allow access to music files stored on your iPod directly through the head unit.

It is highly recommended that your iPod has the latest version of operating software installed in order to acheive the best results. This software can be obtained from: apple.com/itunes

If the vehicle has an existing CD Changer, this interface replaces the functionality of the existing CD Changer. The CD Changer does not need to be removed, however it will no longer operate as part of the factory audio system in particular vehicles.

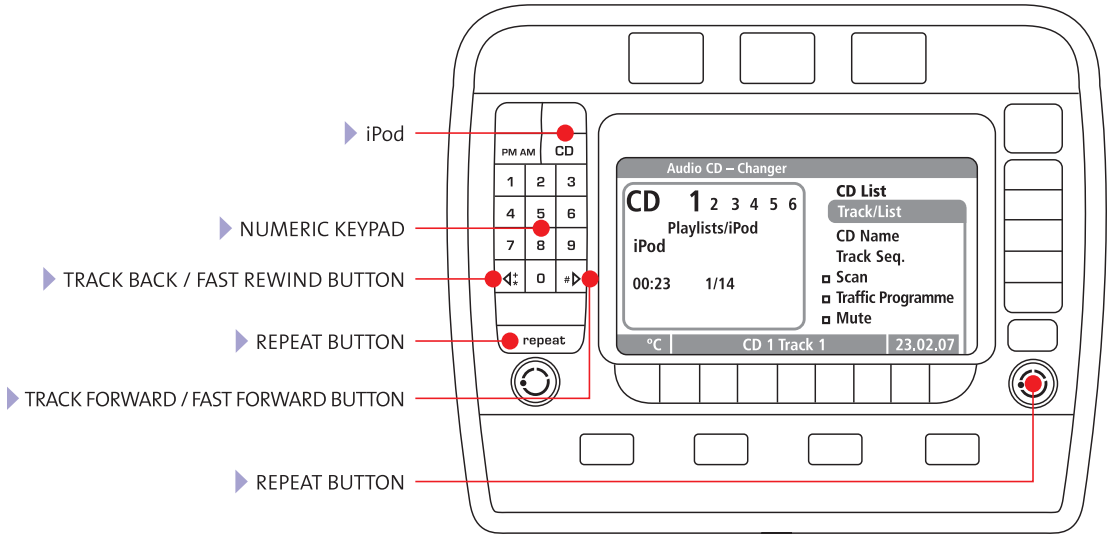
This manual has been designed solely for the purpose of assisting a user to operate the iPod functionality. If you require information relating specifically to your vehicle or the operation of other electronics systems in the vehicle, please consult your vehicle user manual or local dealer.

Warning

This interface is designed for use with iPod 4th and 5th Use this system only when Traffic conditions permit. SAFE VEHICLE OPERATION IS THE SOLE RESPONSIBILITY OF THE DRIVER. Neither ECP, LLC, their agents, distributors or resellers accept responsibility for any damage or injury resulting from the use of this product.

Head Unit Controls

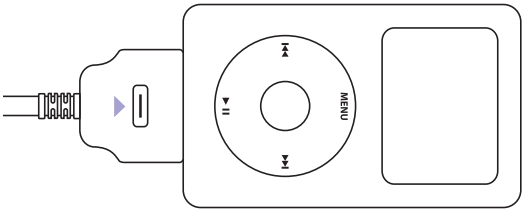
You will need to use specific controls on the head unit in order to navigate through the different functions of your iPod. There are a number of buttons on the head unit which will enable access to those functions. The diagram below shows the location of the buttons required to operate the iPod interface.



Operating the iPod

Plug in and charge the iPod

Plug the iTronic dock connector into the base of your iPod. The dock connector inserts into the iPod with the icon facing up as shown below .



Once the iPod has been connected it will begin to charge and all functions will be transfered to the head unit. iPod functions will no longer be accesible directly from the iPod. The iPod will charge whenever the audio system is in use and will stop charging whenever the vehicle's electrical system shuts down.

It is important to remember that the iPod replaces the function of the CD Changer and therefore must be expected to operate in a very similar way. If the vehicle has an existing CD Changer, it will be replaced by the iPod and the CD Changer will no longer operate as part of the factory audio system.

To begin operating the iPod, Push the CD button on the head unit. Allow a few seconds for the Head unit to recognise the iPod as the CD Changer. Once the iPod has loaded and is ready for use, the system will automatically play the first track of the first playlist on the iPod (see figure 01). You will note that the top of the display reads "Audio CD Changer," confirming that the head unit is in CD Changer mode.

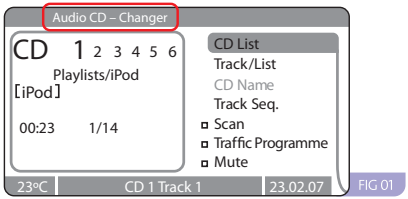
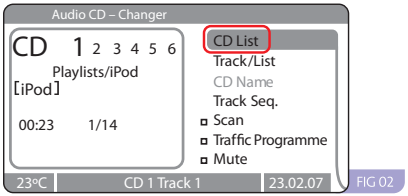


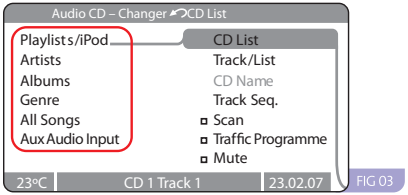
FIG 01

The six discs will be replaced by the following functions (genres) by default:

Disc 1	Playlists	Disc 4	Genre
Disc 2	Artists	Disc 5	All Songs
Disc 3	Albums	Disc 6	Aux Audio Input

To view the disc list on screen, select your head unit's method of viewing available discs and the iPod disc layout will be displayed. See figure 03.

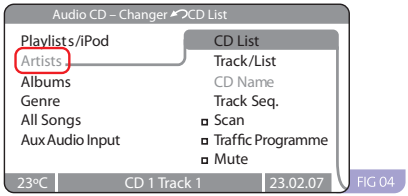


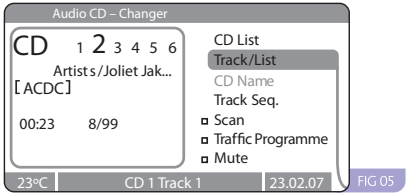


Selecting options from the CD list menu

Using the head unit controls highlight and select the desired function from the CD list menu.

For example, to select Artists from the CD list scroll using the head unit controls to highlight the option. Press the disc control button from the head unit to select. The first song from within the Artists first folder will begin playing automatically and the screen will display as per figure 05.





TIP: Disc selection varies across vehicles. Particular vehicles have disc shortcuts that can be achieved by holding the keypad corresponding disc number for a number of seconds.

For example to select the Artists function, push and hold the '2' button for 2 seconds. The screen will then display as per figure 06.

Note: You do not need to be viewing the CD list menu to be able to use this function. This method can be used throughout the CD changer menus.

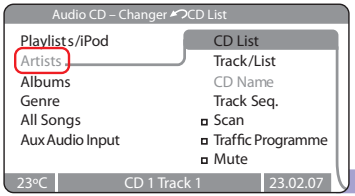


FIG 06

Selecting options from the track list menu

All of the information from your iPod remains sorted into folders. The iTronic user interface allows you to access songs and peruse song lists by opening folders to view and select the contents. This feature is called folder support.

Once a selection has been made from the CD List Menu, the contents can be viewed by selecting the track list function. This can be done by using the vehicle specific controls to view the CD track listing. The track listing menu varies according to head and vehicle controls.

For example, after selecting the "Playlists" function from the CD list menu. See figure 07.

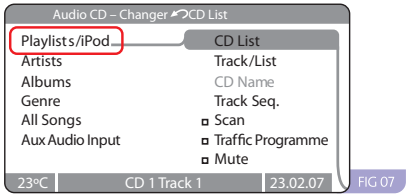


FIG 07

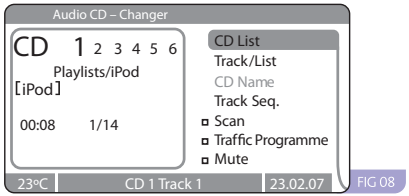


FIG 08

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

- Select the track list menu and the screen will display as per figure 10.

Note: Vehicle controls to display track list vary according to vehicle type. Figures shown may not necessarily correspond to your vehicle type and control.

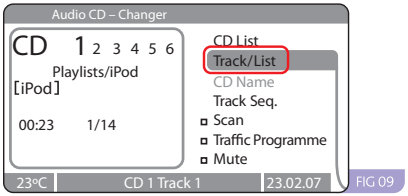


FIG 09

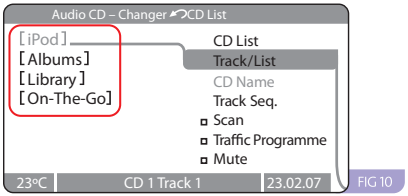


FIG 10

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

Opening folders and playing tracks

Folders can be identified by the tags which are placed around them. See figure 11

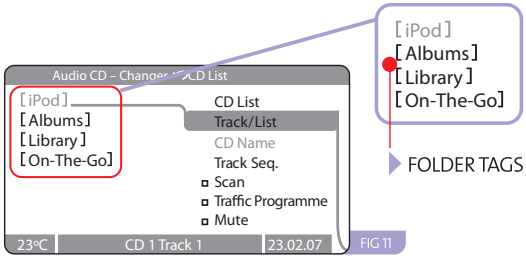


FIG 11

By using the CD controls to change tracks, it is possible to move forward and backward through the list of folders to highlight the desired folder. See figure 12

To open and enter folders there are a number of methods available depending upon vehicle type & existing CD controls.

Mercedes and Porsche head units also have the ability to auto select folders. Please see the 'Disc 6 Menu and Control' chapter under 'Auto Selection' for this option.

PORSCHE CONTROL

- FFWD by holding the track forward ">>" controls for 2 seconds
- Double click in rapid succession like a computer mouse

AUDI & SAAB CONTROL

- FFWD by holding the track forward ">>" controls for 2 seconds

- Double click in rapid succession like a computer mouse
- Using the MMI i-drive controller to select by depressing the rotary dial.

MERCEDES CONTROL

- FFWD by holding the track forward ">>" controls for 2 seconds

BMW CONTROL

- I-drive controller select.

Once a folder has been selected, the screen will show a list of tracks within that folder. See figure 13.

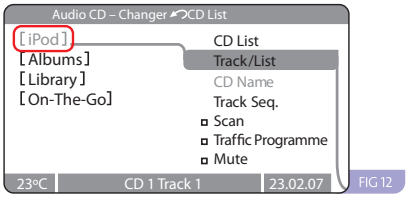


FIG 12

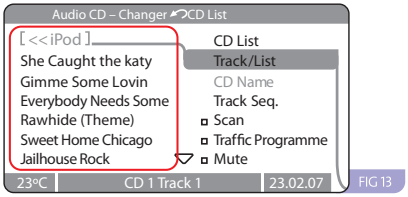


FIG 13

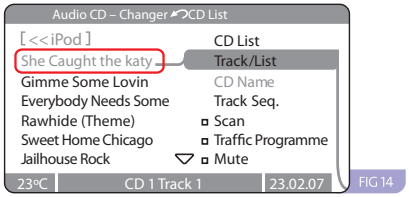


FIG 14

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

From this screen you can now browse tracks by using the CD controls on the vehicle head unit as you would normally browse CD tracks by using the up/down/rotary dial controls. Tracks can be selected by either waiting for a number of seconds and the track will be automatically selected, or by using the vehicle specific selection control such as an i-drive controller.

Alternatively the track forward button can be used to move forward through the track list and the track back button can be used to move backwards through the list.

Note: If the track back button is double pressed to quickly it will perform the function of exiting the folder on those vehicles that support the double click action.

Fast forwarding and rewinding a track

After selecting a track to play, press and hold the track forward button to fast forward through the track. A sample of the audio will be heard every few seconds to enable you to confirm how far through the track you have progressed. To rewind back through the track, press and hold the track back button.

Exiting (closing) a folder

To close and exit folders there are a number of methods available depending upon vehicle type and existing CD controls.

PORSCHE CONTROL

- FFWD by holding the track forward "<<" controls for 2 seconds
- Double click in rapid succession like a computer mouse

AUDI CONTROL

- FFWD by holding the track forward "<<" controls for 2 seconds
- Double click in rapid succession like a computer mouse
- Using the MMI i-drive controller to select by depressing the rotary dial.

MERCEDES CONTROL

- FFWD by holding the track forward "<<" controls for 2 seconds

BMW CONTROL

- I-drive controller select.

On those head units that support the double click track back method like a computer mouse, exiting a folder can be achieved from any highlighted track. See figure 15.

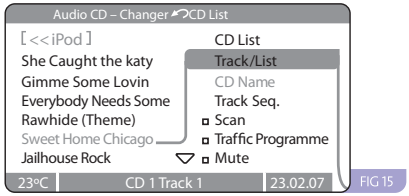


FIG 15

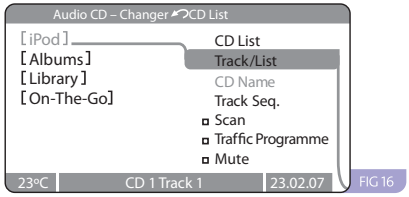


FIG 16

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

Once the folder has been closed, the screen will display the previous folder list. The playing track will continue until continue to play until another track is selected.

The other method of exiting a folder is to use the track back "<<" controls. Highlight the folder tag at the top of the track list and then push and hold the track back button for 2 seconds to exit the folder. See figure 18.

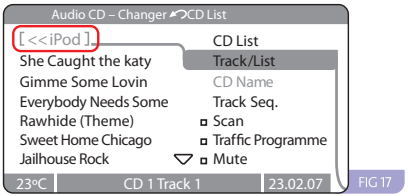


FIG 17

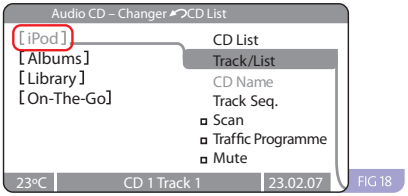


FIG 18

Using the track sequence menu

The track sequence menu allows the user to alter the sequence in which tracks are played. The user can repeat tracks or groups of tracks, or randomize the selections being played.

Existing CD vehicle controls can be used to access the track sequence menu. See figure 19.

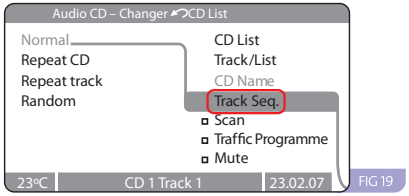


FIG 19

Note: Depending on head unit and vehicle type, the track sequence menu may vary from the figure depicted.

Repeating a track

From the track sequence menu screen (see figure 19) select the option "Repeat Track". The current playing track will now be set on repeat.

Note: Repeat track controls may vary depending on head unit and vehicle controls. Some head units may have a dedicated repeat button for this functionality.

Repeating a CD

From the track sequence menu screen (see figure 19) select the option "Repeat CD". The current playing folder will now be set on repeat.

Note: Repeat CD controls may vary depending on head unit and vehicle controls. Some head units may not support this functionality.

Random mode

From the track sequence menu screen (see figure 19) select the option "Random". This will randomize the current folder.

Note: Random controls may vary depending on head unit and vehicle controls. Some head units may have a dedicated random button for this functionality.

Please note: It takes a number of seconds to update the vehicle head unit screen with the correct track sequence when exiting and entering random mode. Allow 10 seconds for the screen to update with the correct track sequence.

Scan

From the track sequence menu screen (see figure 19) select the option "Scan". This will play the first 10 seconds of each track in the folder from the current playing track.

Note: Scan controls may vary depending on head unit and vehicle controls. Some head units may have a dedicated scan button for this functionality.

Playing tracks in normal order

From the track sequence menu screen (see figure 19) select the option "Normal". This selection will cancel any previous selections which have been made from this menu.

Track sequence menu may differ depending on head unit type. Selecting normal mode and unselecting Random/Repeat/ Scan may be achieved by unselecting the current settings.

Note: Random/Scan/Repeat controls may vary depending on head unit and vehicle controls. Some head units may have dedicated buttons for these functions.

Please note: It takes a number of seconds to update the vehicle head unit screen with the correct track sequence when exiting and entering random mode. Allow 10 seconds for the screen to update with the correct track sequence.

Using your vehicle's steering wheel controls

If your vehicle has steering wheel controls, they will function with the iTronic audio unit. The steering wheel controls will be identical to the corresponding controls from the head unit. If you are unsure of the operation of the steering wheel controls, please consult your vehicle user manual.

Auxillary audio source & manual iPod control

The iTronic audio interface has the facility to play audio from and external (auxiliary) audio device through the factory audio system.

To select the auxiliary input, go to the CD List menu (see figure 3, page 8). From the CD List choose the "Menu / Aux audio" CD function. See figure 20.

To manually control the iPod and exit lock mode, press and old the Track Forward button for 2 seconds on "Exit lock mode" from within the CD Track listing menu. See figure 21.

The iPod will exit lock mode and allow manual user control.

To re-enter lock mode and gain full control from the vehicle, press and hold the Track Forward button for 2 seconds on the "Enter lock mode" track index.

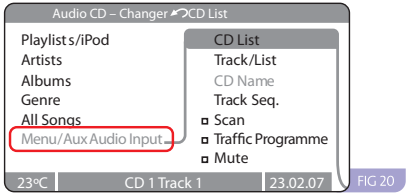


FIG 20

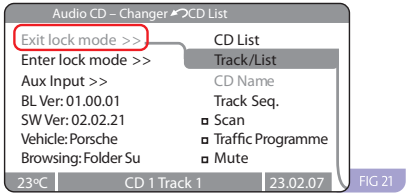


FIG 21

Tip: Push and hold Rotary Selection button on the numeric keypad from any screen as a shortcut to select the Menu/Auxillary audio input

Paging control

Due to the CD limitation of 99 tracks, the interface allows the user to load up pages of 99 tracks which allows the user to browse through the entire list of iPod tracks. There is no limitation to the thousands of songs that can be paged.

Once the 99th track has been reached, the tag "[Next Page >>]" will be presented. See figure 22. The next page of 99 tracks can be uploaded by pressing and holding the Track Forward button for 2 seconds.

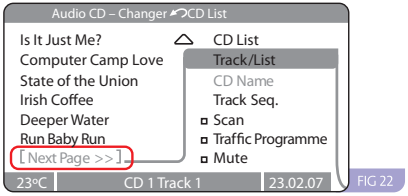


FIG 22

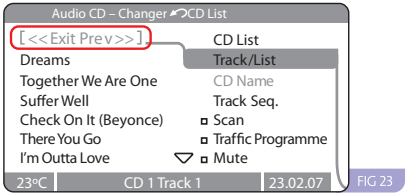


FIG 23

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

To go to the previous page, highlight track 1 which will be displaying the tag "[<< Exit / Prev >>]" and press and hold the track forward button for 2 seconds. See figure 24.

It is always possible to exit a folder to the folder list from any page by double clicking track back or press and hold the track back button for 2 seconds on the tag "[<< Exit / Prev >>]" track tag. See figure 24.

Note: The double click method is only available on those head units that support this functionality.

Note: The CD track limitation on the Mercedes vehicles is limited to 98 tracks due to a head unit specific problem on particular Mercedes vehicles.

Note: The BMW limitation is 250 tracks rather than 99.

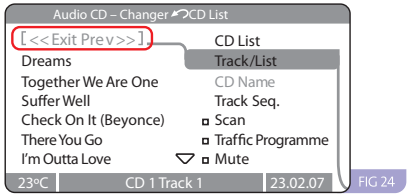


FIG 24

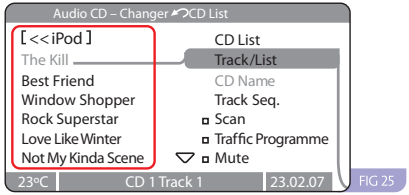


FIG 25

Note: The head unit may take some time to process the information from your iPod. Allow around 5 seconds for the head unit to update the track list display.

Basic Radio Control
For non-text display head-units

Supported vehicles

01 Porsche CDR 23/24

02 Mercedes Audio 20, Audio 50

03 BMW i-drive for non-mp 3 vehicles

Playlist setup

Without text display on the HU, it is not possible to browse the iPod by folder. Instead the user can load up select playlists. These playlists can be numbered "DISC 1", "DISC 2","DISC 3","DISC 4","DISC 5". The sixth disc is reserved for the Aux audio/Menu control.

If the user does not number these discs, then the first five playlists are loaded by default anyway. If the user has only labelled a limited number of discs such as only DISC 1 and DISC 2, then the remaing discs will be loaded with the iPod playlists.

Picture below (see figure 01) shows Playlists loaded as discs. In this particular case playlist "DISC 1" is loaded.

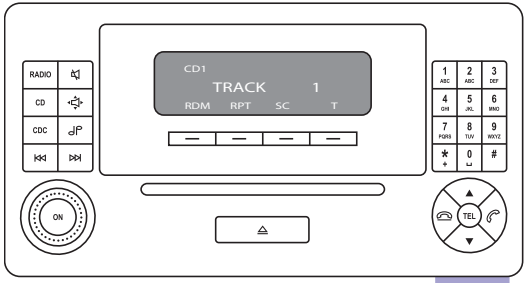


FIG 01

The user can go track up/down via either sterring wheel buttons or via the HU controls/idrive system.

Paging

Should the playlist contain more than 99 tracks, it is possible for the user to move within the playlist to the next list of 99 songs.

To do this, track 99 can be selected and the user can FFWD on this track. When the next page of 99 tracks is loaded, the first song on the next page will play automatically.

Picture below (see figure 02) demonstrates track 99 on which the user can FFWD ">>".

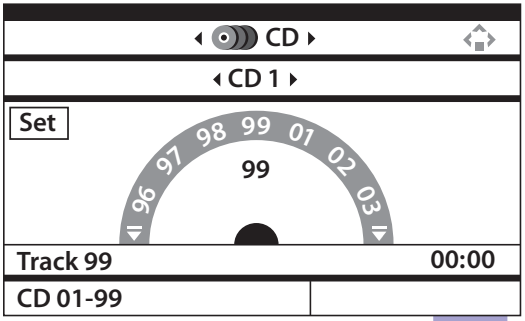


FIG 02

The user can also "<<" FRWD on track 1to page back to the previous 99 tracks (see figure 03).

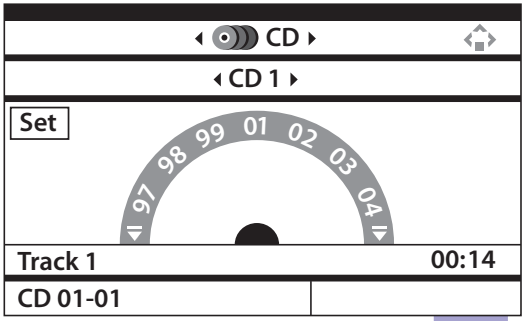


FIG 03

Random/Repeat/Scan

All work as normal.

Disc 6 Aux audio / Menu

Disc 6 works as the Auxillary audio and Menu control.

To regain control of the iPod, FFWD ">>" on track 2 of Disc6 and the playlists will be loaded again (see figure 05).

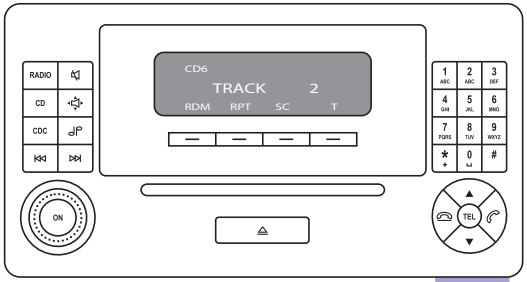


FIG 05

To unlock the iPod for manual control, simply FFWD ">>" on track 1of disc 6 (see figure 04).

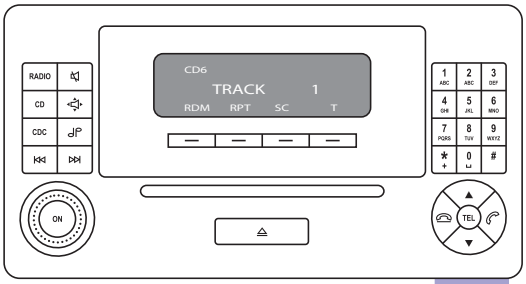


FIG 04

To switch between the iPod audio and Aux audio, simply FFWD ">>" on track 3 (see figure 06).

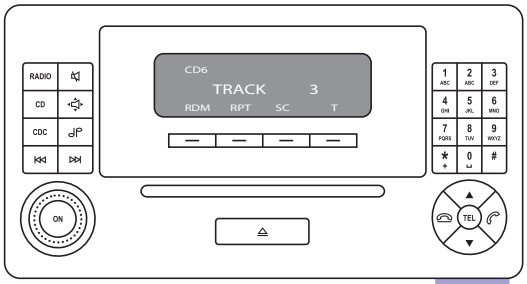


FIG 06

Warranty

Your iTronic audio interface is warranted against any manufacturing defects for a period of 12months from purchase. Any part of the iTronic audio interface may be replaced or repaired at the discretion of the manufacturer after such part is deemed to have a manufacturing fault.

If you have any questions about your iTronic audio interface, please contact your local service agent, whose details are attached to the back page of this user instruction manual.

FCC information (for US customers only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interface by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Warning: Any changes or modifications not expressly approved by ECP, LLC could void the user's authority to operate this equipment.